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Sequence Listing was accepted.

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217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2010; month=4; day=7; hr=9; min=18; sec=32; ms=19;]

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Application No: 10528644

Version No: 3.1

Input Set:

Output Set:

Started: 2010-04-07 09:17:40.651

Finished: 2010-04-07 09:17:44.608

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 957 ms

Total Warnings: 184

Total Errors: 0

No. of SeqIDs Defined: 184

Actual SeqID Count: 184

| Error code | Error Description |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (2) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (3) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (4) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (5) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (6) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (7) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (8) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (9) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (10) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (11) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (12) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (13) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (17) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (20) |

Input Set:

Output Set:

Started: 2010-04-07 09:17:40.651

Finished: 2010-04-07 09:17:44.608

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 957 ms

Total Warnings: 184

Total Errors: 0

No. of SeqIDs Defined: 184

Actual SeqID Count: 184

| Error code | Error Description |
|------------|---|
| | This error has occurred more than 20 times, will not be displayed |
| W 402 | Undefined organism found in <213> in SEQ ID (50) |
| W 402 | Undefined organism found in <213> in SEQ ID (51) |
| W 402 | Undefined organism found in <213> in SEQ ID (52) |
| W 402 | Undefined organism found in <213> in SEQ ID (53) |
| W 402 | Undefined organism found in <213> in SEQ ID (54) |

SEQUENCE LISTING

<110> SUNG, Young Chul
YOUN, Jin-Won
YANG, Se-Hwan
PARK, Su-Hwan
LEE, Chang Geun

<120> A vaccine enhancing the protective immunity to Hepatitis C virus
using plasmid DNA and recombinant adenovirus

<130> 428.1049

<140> 10528644

<141> 2005-03-18

<150> KR 2002-58712

<151> 2002-09-27

<150> KR 2002-68496

<151> 2002-11-06

<160> 184

<170> PatentIn version 3.5

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| <210> | 34 | |
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| <220> | | |
| <223> | PCR primer | |
| <400> | 35 | |
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| <210> | 36 | |
| <211> | 24 | |
| <212> | DNA | |
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| <220> | | |
| <223> | PCR primer | |
| <400> | 36 | |
| | gctgtagagc tcatattttt actg | 24 |

<210> 37
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<400> 37
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<210> 38
<211> 29
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<220>
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<210> 39
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<400> 40
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<223> PCR primer for gDs

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| <223> PCR primer for HCV gene | |
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| <210> 43 | |
| <211> 30 | |
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| <213> Artificial Sequence | |
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| <220> | |
| <223> PCR primer for HCV gene | |
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| <211> 30 | |
| <212> DNA | |
| <213> Artificial Sequence | |
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| <223> PCR primer for pTV2 gDsE2t | |
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| <400> 44 | |
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| <210> 45 | |
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| <213> Artificial Sequence | |
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| <220> | |
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| <211> 30 | |
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<223> PCR primer for pTZ HCV

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<223> PCR primer for pTZ HCV

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<210> 49
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<220>

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atccccaagg ctgcgcaacc cgagggtagg acctgggctc agcccgggta cccttgggccc 240

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| cctagttggg gccccacaga cccccggcgt aggtcgcgta atttgggtaa ggtcatcgat | 360 |
| actctcacat ggggcttcgc cgacctcatg gggtagattc cgctcgtcgg cggcccccta | 420 |
| ggggggcgttg ccagggcctt ggcacatggg gtccggttcc tggaggacgg cgtgaactat | 480 |
| gcaacaggga atctgcctgg ttgctctttc tctatcttcc ttttggctct gttgtctggt | 540 |
| ttgaccaccc cagtttctgc ttacgaggtg cgcaacgtgt ccgggggtata ccatgtcacg | 600 |
| aacgactgct ccaactcaag catcgtatat gaggcagcgg acatgatctt gcataacccc | 660 |
| gggtgcgtgc cctgcgttcg ggagggtaac tcctcccggt gttgggtagc gctcactccc | 720 |
| acgctcgcgg ccaggaatgc cagcgttccc actacgacaa tacgacgaca cgtcgacttg | 780 |
| ctcgttgggg cggctgcttt ctgctccgct atgtacgtgg gggatctgtg cggatctgtc | 840 |
| ttctcgtct cccagctgtt caccttctca cctcgcgggc atgagacgac acaggactgc | 900 |
| aattgctcac actatcccgg ccacgtatca ggtcacccga tggcctggga tatgatgatg | 960 |
| aattggtcgc ccacagcagc cctggtggtg tcacagatgc tccggatccc acaagctgtc | 1020 |
| gtggacatgg tggcgggggc cactgggga gtccctggcg gccttgcta ctattccatg | 1080 |
| gtggccaact gggctaaggt tttggttgtg ctgctgcttt ttgccggcgt cgatgggagc | 1140 |
| accgcgctga caggaggaac ggaaggccgc acgaccaacc ggctcgtgag catctttgcg | 1200 |
| tccggaccat ctcagaaaat ccagcttgta aacaacaacg gcagttggca catcaacagg | 1260 |
| actgctctga actgcaatga ctccctcagc tctgggttta ttgccgact gttctacaca | 1320 |
| cacaagttcg actcgtccgg atgccagag cgtatggcca gttgccgcc cattgacaag | 1380 |
| ttcgctcagg gatggggctc catcacgtat gctgagctg gcggttcgga ccagaggcct | 1440 |
| tactgttggc actacgcacc ccgacagtgt ggtatcgta cgcacgcga ggtgtgtggt | 1500 |
| ccagtatat gtttcacccc aagcccagtt gtagtgggga ctaccgatcg ttccggtgcc | 1560 |
| cctacgtaca cctgggggga gaatgagacg gacgtgctgc tcctcaacaa cacgcggccg | 1620 |
| ccgcaagcga actgggttcg ctgtacatgg atgaatagca ctgggttcac caagacgtgc | 1680 |
| gggggcccc cgtgtgacat cgggggggta ggcaacaaca ccttgacctg cccacggat | 1740 |
| tgcttcgga agcaccccga agccacttac accaaatgtg gttcgggacc ttggttaaca | 1800 |
| cctaggtgta tggttgacta cccatacaga ctttggcact acccctgcac tatcaacttt | 1860 |
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| ctgctactgt ctacaacaga gtggcaggta ttgccctggt ccttcaccac cctaccggcc | 2040 |
| ctgtccactg gattgattca cctccaccag aacatcgtgc acgcgcaaca cctgcacggt | 2100 |
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| acacaatctt tcctggcgac ctgcgtcaat ggcgcttgga ctgtcttcca tggtgccggc | 180 |
| tcaaagacct tagccggccc aaaggggcca attacccaaa tgtacaccaa tgtagacctg | 240 |
| gacctcgtcg gctggcaggc accccccggg tcgcgtcccc tgacaccatg cacctgcggc | 300 |
| agctcagacc ttacttggt cacgagacat gctgatgtca ttccggtgcg ccggcggggc | 360 |
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| ggtcactgc tctgcccttc ggggcacgct gttggcatct ttcgggctgc tgtatgcacc | 480 |
| cgggggggttg cgaaggcggg ggacttcata cccgttgaat ctatggaaac tactatgcgg | 540 |
| tctccggtct tcacagataa ctcaaccccc ccggccgtac cgcagacatt ccaagtggcc | 600 |
| catctacacg cccccactgg cagtggtaag agcactaaag tgccggctgc gtatgcagcc | 660 |
| caagggtaca aggtgcttgt cctgaacccg tccgttgccg ccaccttggg ttttggggtg | 720 |
| tatatgtcta aagcacatgg tatcgacccc aacatcagaa ctgggggttag ggccatcacc | 780 |
| acgggcgccc ctattacata ctctacctat ggcaagtttc ttgccgatgg tggttgctcc | 840 |
| ggggg'gcct acgacatcat aatatgtgat gagtgccact caactgactc aacttccatc | 900 |
| ttgggcattg gcacagtcct ggaccaagcg gagacggctg gagcgcggct cgtcgtgctc | 960 |
| gccaccgcta cgctccggg atcggtcacc gtgccacacc ccaatatcga ggaggtggct | 1020 |
| ctgtccaaca ctggagagat ccccttctac ggcaaagcca tccccattga ggtcatcaag | 1080 |
| gggggaagac atctcatttt ctgccattcc aagaagaagt ctgacgagct cgccgcaaag | 1140 |
| ctgtcagccc tcggacttaa tgctgtagca tattaccggg gtcttgatgt gtccgtcata | 1200 |

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| gatccacact tcaccattga cacgacgacc gtgccccaa acgcagtgtc gcgctcacag | 1380 |
| cggcggggca ggactggcag gggcaggaga ggcatctaca ggtttgtgac tccaggagaa | 1440 |
| cggccttcgg gcatgttcga ttcttcctgc ctgtgtgagt gctatgacgc gggctgtgct | 1500 |
| tggtatgagc tcacgcctgc tgagacttca gttaggttgc gggcttacct gaatacacca | 1560 |
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| aggctaggag ccgtccaaa tgaggtcacc ctcacacacc ccgtgaccaa attcatcatg | 1860 |
| gcatgcatgt cggctgacct ggaggtcgtc actagcactt gggtgctagt aggcggggtc | 1920 |
| cttgacgctc tggcgcgta ctgcttgaca acaggcagcg tggtcattgt gggcaggatc | 1980 |
| atcttgccg ggaggccagc cgtcattccc gacagggaag tcctctaccg ggagttcgat | 2040 |
| gaaatggaag agtgcgcttc acacctccct tacatcgaac aggggatgct gctcgccgag | 2100 |
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| ctctgttta acatcctggg ggggtgggtg gctgcccagc ttgcccccc cagcgctgct | 2400 |
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| gtgcttggtg acatcctggc aggtatgga gcaggggtgg ccggcgcaact cgtggccttt | 2520 |
| aaggatcatga gtggcgaggt gccctccacc gaggatctgg ttaatttact tcctgccatc | 2580 |
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| ggtccaggag agggggctgt gcagtggatg aaccggtga tagcgttcgc ctcgcggggt | 2700 |
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<212> DNA
<213> Hepatitis C virus (NS5)

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